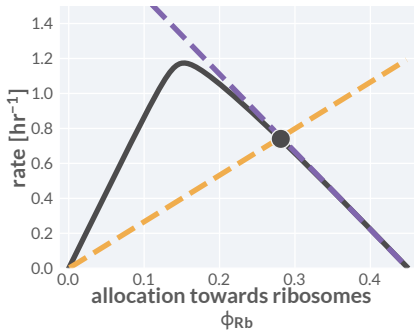


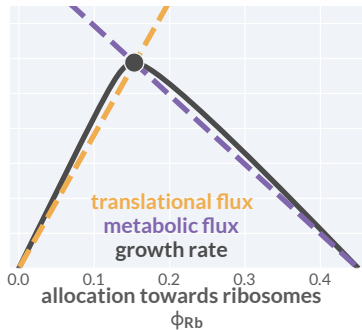
tRNA balance too low

ppGpp **decreases** ϕ_{Rb} \rightarrow fluxes **increase**
 ppGpp **increases** ϕ_{Rb} \rightarrow fluxes **decrease**



tRNA balance at optimum

ppGpp **decreases** ϕ_{Rb} \rightarrow fluxes **decrease**
 ppGpp **increases** ϕ_{Rb} \rightarrow fluxes **decrease**



tRNA balance too high

ppGpp **decreases** ϕ_{Rb} \rightarrow fluxes **decrease**
 ppGpp **increases** ϕ_{Rb} \rightarrow fluxes **increase**

